DISCIPLINE: Network Communications Protection
Discipline Roadmap for: Firewalls - Perimeter

DOMAIN: PRESENTATION SERVICES

Current	2 Years	5 Years
Baseline Environment	**Tactical Deployment**	**Strategic Direction**

Baseline Environment
- Checkpoint
- Juniper
- Cisco ASA
- Nokia (Checkpoint)
- Secure Computing

Strategic Direction

Firewall with IPS and enhanced defense capabilities as well as extended visibility

This whole area is again in a market watch as UTM's evolve

Shared	Agency
	✓

Retirement Targets

None

Mainstream Platforms

Juniper, Cisco ASA, Checkpoint, Secure Computing

Containment Targets

Contain everything else including Cisco PIX based on discontinuation to replace with CISCO ASA over time

Emerging Platforms

Enhanced Network Visibility, Defense in Depth, Palo Alto Networks worth considering

Implications and Dependencies - DPI is now viewed as a must have feature because of the increasing blended attacks even in the tactical deployment. Currently firewalls that do not have deep packet inspection capabilities are to be contained. Perimeter firewalls that do not have DPI or limited DPI should be augmented with an intrusion prevention devices until they are replaced.

Roadmap Notes
- Yearly review

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- **Discipline Boundaries:**
  - ❑ While separate disciplines, desktop firewalls and perimeter firewalls are not mutually exclusive of one another. The best implementation strategy would be a layered approach with a strong perimeter defense supplemented by a strong desktop defense. In many instances, you would model the firewall strategy after the evolution of the anti-virus strategy with at least a clear two tier approach. In some cases, additional firewalls or IPS implementations would be necessary to protect extremely sensitive data from both internal and external threats and to provide a third tier. Each implementation is situational with at least a deep packet inspection (DPI) perimeter solution.

- **Discipline Standards:**
  - ❑ None

- **Migration Considerations:**
  - ❑ Should an agency convert to a recommended firewall products, expect a price of $5K to $15K at a minimum. This is the current price with deep packet inspection and VPN capabilities with four 10/100/1000 network connections.

- **Exception Considerations:**
  - ❑ None

- **Miscellaneous Notes:**
  - ❑ None

- **Established Date**
  - ❑ April 28, 2004
- **Date Last Updated:**
  - ❑ March 26, 2008
- **Next Review Date:**
  - ❑ November 2009